

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

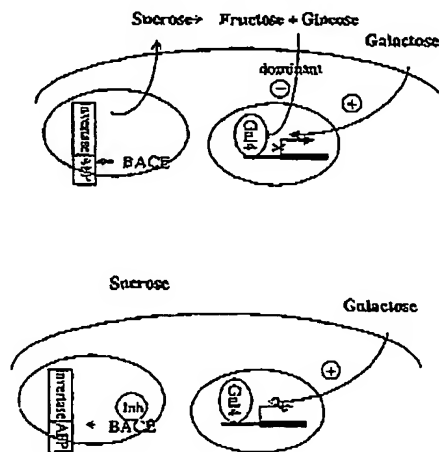
(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
23 October 2003 (23.10.2003)

PCT

(10) International Publication Number  
WO 03/087842 A1

- (51) International Patent Classification<sup>7</sup>: G01N 33/68, 33/50, C12Q 1/68, 1/02
- (21) International Application Number: PCT/IB02/01342
- (22) International Filing Date: 18 April 2002 (18.04.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (for all designated States except US): ESBAT-ECH AG (CH/CH); Wagistrasse 21, CH-8952 Schlieren (CH).
- (72) Inventors; and
- (73) Inventors/Applicants (for US only): BARBERIS, Alcide [CH/CH]; Allermuossstrasse 64, CH-8057 Zürich (CH). MIDDENDORP, Oliver, Michael [CH/CH]; Hermann Götz Strasse 4, CH-8400 Winterthur (CH). LÜTHI, Urs [CH/CH]; Handgasse 2, CH-8180 Bülach (CH).
- (74) Agent: E. BLUM & CO.; Vorderberg 11, CH-8004 Zurich (CH).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR THE IDENTIFICATION OF MODULATORS OF A SECRETASE ACTIVITY



(57) Abstract: The present invention relates to a cellular screening method for the identification of modulators of secretases. Said method comprises contacting suitable host cells with a test substance wherein said suitable host cells comprise: a) a fusion protein comprising a secretory protein, a membrane anchor domain and a secretase cleavage sequence, b) a protein comprising a secretase activity recognising said cleavage sequence of said fusion protein and c) at least one reporter gene under control of a transcriptional activation system wherein said transcriptional activation system is regulated by the release of said secretory protein from said fusion protein by said secretase activity and its subsequent secretion then culturing said cells under suitable conditions such that said reporter gene allowing detection and/or survival of cells is only expressed or repressed in a manner that is dependent on an altered secretase activity due to said test substance.

WO 03/087842 A1